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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/738,944

DATE: 09/21/97
TIME: 10:15:05

INPUT SET: S20427.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages

ENTERED

SEQUENCE LISTING

(1) General Information

(i) APPLICANT: Peterson, et al.

(ii) TITLE OF THE INVENTION: METHODS FOR GENERATING AND
SCREENING NOVEL METABOLIC PATHWAYS

(iii) NUMBER OF SEQUENCES: 51

(iv) CORRESPONDENCE ADDRESS:

- (A) ADDRESSEE: Pennie & Edmonds
- (B) STREET: 1155 Avenue of the Americas
- (C) CITY: New York
- (D) STATE: NY
- (E) COUNTRY: USA
- (F) ZIP: 10036/2711

(v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Diskette
- (B) COMPUTER: IBM Compatible
- (C) OPERATING SYSTEM: DOS
- (D) SOFTWARE: FastSEQ Version 2.0

(vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/738,944
- (B) FILING DATE: 24-OCT-1996
- (C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: USSN 08/639,255
- (B) FILING DATE: 24-APR-1996

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Coruzzi, Laura A
- (B) REGISTRATION NUMBER: 30,742
- (C) REFERENCE/DOCKET NUMBER: 8757-007

(ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: 212-790-9090
- (B) TELEFAX: 212-869-8864
- (C) TELEX: 66141 PENNIE

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(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(ix) FEATURE:

- (A) NAME/KEY: Oligonucleotide "Bead-link-5"
- (B) LOCATION: 1...23
- (D) OTHER INFORMATION:
- (A) NAME/KEY: Other
- (B) LOCATION: 1
- (D) OTHER INFORMATION: Biotin at nucleotide 1

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GCCGACCATT TAAATCGGTT AAT

23

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(ix) FEATURE:

- (A) NAME/KEY: Oligonucleotide "Bead-link-3"
- (B) LOCATION: 1...21
- (D) OTHER INFORMATION:
- (A) NAME/KEY: Other
- (B) LOCATION: 1
- (D) OTHER INFORMATION: Phosphate at nucleotide 1

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

TAACCGATT TAAATGGTCGG C

21

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 44 base pairs
- (B) TYPE: nucleic acid

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100 (C) STRANDEDNESS: single
101 (D) TOPOLOGY: linear
102
103 (ii) MOLECULE TYPE: DNA
104 (ix) FEATURE:
105
106 (A) NAME/KEY: Annealed beadlink oligonucleotide
107 (B) LOCATION: 1...44
108 (D) OTHER INFORMATION:
109
110
111 (A) NAME/KEY: Other
112 (B) LOCATION: 8...15, 31...38
113 (D) OTHER INFORMATION: SmaI restriction
114 endonuclease sites
115
116 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
117
118 GCCGACCATT TAAATCGGTT AATCGGCTGG TAAATTTAGC CAAT 44
119
120 (2) INFORMATION FOR SEQ ID NO:4:
121
122 (i) SEQUENCE CHARACTERISTICS:
123 (A) LENGTH: 12 base pairs
124 (B) TYPE: nucleic acid
125 (C) STRANDEDNESS: single
126 (D) TOPOLOGY: linear
127
128 (ii) MOLECULE TYPE: DNA
129 (ix) FEATURE:
130
131 (A) NAME/KEY: BstXI site
132 (B) LOCATION: 1...12
133 (D) OTHER INFORMATION:
134
135
136 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
137
138 CCACCTAACT GG 12
139
140 (2) INFORMATION FOR SEQ ID NO:5:
141
142 (i) SEQUENCE CHARACTERISTICS:
143 (A) LENGTH: 20 base pairs
144 (B) TYPE: nucleic acid
145 (C) STRANDEDNESS: single
146 (D) TOPOLOGY: linear
147
148 (ii) MOLECULE TYPE: DNA
149 (ix) FEATURE:
150
151 (A) NAME/KEY: Promoter for cDNA and gDNA inserts
152 (B) LOCATION: 1...20

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153 (D) OTHER INFORMATION:
154
155 (A) NAME/KEY: Other
156 (B) LOCATION: 10...11
157 (D) OTHER INFORMATION: Promoter site
158
159

160 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
161

162 GAGTAGATCT CTCGAGCGGC
163

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164 (2) INFORMATION FOR SEQ ID NO:6:
165

166 (i) SEQUENCE CHARACTERISTICS:

167 (A) LENGTH: 20 base pairs
168 (B) TYPE: nucleic acid
169 (C) STRANDEDNESS: single
170 (D) TOPOLOGY: linear
171

172 (ii) MOLECULE TYPE: DNA

173 (ix) FEATURE:
174

175 (A) NAME/KEY: Promoter for cDNA and gDNA inserts

176 (B) LOCATION: 1...20

177 (D) OTHER INFORMATION:
178

179 (A) NAME/KEY: Other

180 (B) LOCATION: 10...11

181 (D) OTHER INFORMATION: Promoter site
182

183
184 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
185

186 GCCGCTCGAG AGATCTACTC
187

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188 (2) INFORMATION FOR SEQ ID NO:7:
189

190 (i) SEQUENCE CHARACTERISTICS:

191 (A) LENGTH: 6 base pairs
192 (B) TYPE: nucleic acid
193 (C) STRANDEDNESS: single
194 (D) TOPOLOGY: linear
195

196 (ii) MOLECULE TYPE: DNA

197 (ix) FEATURE:
198

199 (A) NAME/KEY: Promoter for cDNA and gDNA inserts

200 (B) LOCATION: 1...6

201 (D) OTHER INFORMATION:
202

203 (A) NAME/KEY: Other

204 (B) LOCATION: 5...6
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206 (D) OTHER INFORMATION: Promoter site
207
208
209 (A) NAME/KEY: Other
210 (B) LOCATION: 1
211 (D) OTHER INFORMATION: Phosphate at nucleotide 1
212
213
214 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
215
216 GATCTC 6
217
218 (2) INFORMATION FOR SEQ ID NO:8:
219
220 (i) SEQUENCE CHARACTERISTICS:
221 (A) LENGTH: 6 base pairs
222 (B) TYPE: nucleic acid
223 (C) STRANDEDNESS: single
224 (D) TOPOLOGY: linear
225
226 (ii) MOLECULE TYPE: DNA
227 (ix) FEATURE:
228
229 (A) NAME/KEY: Promoter for cDNA and gDNA inserts
230 (B) LOCATION: 1...6
231 (D) OTHER INFORMATION:
232
233
234 (A) NAME/KEY: Other
235 (B) LOCATION: 5...6
236 (D) OTHER INFORMATION: Promoter site
237
238
239 (A) NAME/KEY: Other
240 (B) LOCATION: 1
241 (D) OTHER INFORMATION: Phosphate at nucleotide 1
242
243
244 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
245
246 TCGAGA 6
247
248 (2) INFORMATION FOR SEQ ID NO:9:
249
250 (i) SEQUENCE CHARACTERISTICS:
251 (A) LENGTH: 8 base pairs
252 (B) TYPE: nucleic acid
253 (C) STRANDEDNESS: single
254 (D) TOPOLOGY: linear
255
256 (ii) MOLECULE TYPE: DNA
257 (ix) FEATURE:
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RAW SEQUENCE LISTING
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***** PREVIOUSLY ERRORED SEQUENCES - EDITED *****

1099 (2) INFORMATION FOR SEQ ID NO:38:
1100
1101 (i) SEQUENCE CHARACTERISTICS:
1102 (A) LENGTH: 69 base pairs
1103 (B) TYPE: nucleic acid
1104 (C) STRANDEDNESS: single
1105 (D) TOPOLOGY: linear
1106
1107 (ii) MOLECULE TYPE: DNA
1108
1109 (ix) FEATURE:
1110
1111 (A) NAME/KEY: Other
1112 (B) LOCATION: 6...7, 28...29, 50...51
1113 (D) OTHER INFORMATION: Promoter site
1114
1115
1116 (A) NAME/KEY: Other
1117 (B) LOCATION: 14...15, 36...37, 58...59
1118 (D) OTHER INFORMATION: Methylated site
1119
1120
1121 (A) NAME/KEY: Other
1122 (B) LOCATION: 22...23, 44...45, 66...67
1123 (D) OTHER INFORMATION: Terminator site
1124
1125 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:
1126
1127 GGATCTCTCG ATCCGGATCG AGGGATCTCT CGATCCGGAT CGAGGGATCT CTCGATCCGG 60
1128 ATCGAGGGA 69
1129

1398 (2) INFORMATION FOR SEQ ID NO:47:
1399
1400 (i) SEQUENCE CHARACTERISTICS:
1401 (A) LENGTH: 68 base pairs
1402 (B) TYPE: nucleic acid
1403 (C) STRANDEDNESS: single
1404 (D) TOPOLOGY: linear
1405
1406 (ii) MOLECULE TYPE: DNA
1407
1408 (ix) FEATURE:
1409
1410 (A) NAME/KEY: Other
1411 (B) LOCATION: 1
1412 (D) OTHER INFORMATION: Phosphate at nucleotide 1

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(A) NAME/KEY: Other

(B) LOCATION: 4...5

(D) OTHER INFORMATION: pDbLET Vector

(A) NAME/KEY: Other

(B) LOCATION: 12...13, 34...35

(D) OTHER INFORMATION: Terminator site

(A) NAME/KEY: Other

(B) LOCATION: 20...21, 42...43

(D) OTHER INFORMATION: Methylated inserts

(A) NAME/KEY: Other

(B) LOCATION: 28...29, 50...51

(D) OTHER INFORMATION: Promoter site

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:

CTGGCTCGAT CCCTCGATCC GGATCGAGAG ATCCCTCGAT CCGGATGGAG AGATCCGGGC
TACCTTAG

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SEQUENCE VERIFICATION REPORT
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Line

Error

Original Text